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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/735,014	12/12/2003	Audrey Goddard	10466/486	2599
759	02/22/2006		EXAMINER	
C. Noel Kaman BRINKS HOFER GILSON & LIONE			KAUSHAL, SUMESH	
P.O. BOX 10395			ART UNIT	PAPER NÚMBER
CHICAGO, IL 60610			1633	
			DATE MAILED: 02/22/2000	5

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)	
Advisory Action	10/735,014 GODDARD ET AL.		
Before the Filing of an Appeal Brief	Examiner	Art Unit	
	Sumesh Kaushal Ph.D.	1633	
The MAILING DATE of this communication appe	ars on the cover sheet with the c	orrespondence address	
THE REPLY FILED 30 December 2005 FAILS TO PLACE THIS	S APPLICATION IN CONDITION FO	OR ALLOWANCE.	
The reply was filed after a final rejection, but prior to or or this application, applicant must timely file one of the follow places the application in condition for allowance; (2) a Not a Request for Continued Examination (RCE) in compliant time periods:	wing replies: (1) an amendment, aff tice of Appeal (with appeal fee) in c ce with 37 CFR 1.114. The reply mu	idavit, or other evidence, which compliance with 37 CFR 41.31; o	or (3)
 a)	Advisory Action, or (2) the date set forth		ter. In
Examiner Note: If box 1 is checked, check either box (a) or	(b). ONLY CHECK BOX (b) WHEN THE	-	Ν
TWO MONTHS OF THE FINAL REJECTION. See MPEP 7 Extensions of time may be obtained under 37 CFR 1.136(a). The date have been filed is the date for purposes of determining the period of ex under 37 CFR 1.17(a) is calculated from: (1) the expiration date of the set forth in (b) above, if checked. Any reply received by the Office later may reduce any earned patent term adjustment. See 37 CFR 1.704(b) NOTICE OF APPEAL	on which the petition under 37 CFR 1.1 tension and the corresponding amount shortened statutory period for reply origing than three months after the mailing data.	of the fee. The appropriate extension in ally set in the final Office action; or	n fee (2) as
 The Notice of Appeal was filed on A brief in comp filing the Notice of Appeal (37 CFR 41.37(a)), or any exte a Notice of Appeal has been filed, any reply must be filed AMENDMENTS 	nsion thereof (37 CFR 41.37(e)), to	avoid dismissal of the appeal. S	
3. The proposed amendment(s) filed after a final rejection,	but prior to the date of filing a brief,	will not be entered because	
 (a) ☐ They raise new issues that would require further co (b) ☐ They raise the issue of new matter (see NOTE belo (c) ☐ They are not deemed to place the application in below 	w);	,	for
appeal; and/or			101
(d) ☐ They present additional claims without canceling a NOTE: (See 37 CFR 1.116 and 41.33(a)).		ected claims.	
4. The amendments are not in compliance with 37 CFR 1.11		mnliant Amendment (PTOL-324)	`
5. Applicant's reply has overcome the following rejection(s)		mphant Amendment (F10L-324)	<i>)</i> .
6. Newly proposed or amended claim(s) would be al non-allowable claim(s).		timely filed amendment cancelin	ig the
7. For purposes of appeal, the proposed amendment(s): a) how the new or amended claims would be rejected is profit The status of the claim(s) is (or will be) as follows: Claim(s) allowed: Claim(s) objected to: Claim(s) rejected:		l be entered and an explanation	of
Claim(s) withdrawn from consideration: AFFIDAVIT OR OTHER EVIDENCE			
 The affidavit or other evidence filed after a final action, but because applicant failed to provide a showing of good answas not earlier presented. See 37 CFR 1.116(e). 	t before or on the date of filing a No d sufficient reasons why the affidav	otice of Appeal will <u>not</u> be entered it or other evidence is necessary	d and
9. The affidavit or other evidence filed after the date of filing entered because the affidavit or other evidence failed to of showing a good and sufficient reasons why it is necessary	overcome <u>all</u> rejections under appear y and was not earlier presented. So	al and/or appellant fails to provide ee 37 CFR 41.33(d)(1).	e a
 The affidavit or other evidence is entered. An explanation REQUEST FOR RECONSIDERATION/OTHER 	n of the status of the claims after er	itry is below or attached.	
11. The request for reconsideration has been considered bu See Continuation Sheet.	t does NOT place the application in	condition for allowance because	e:
12. ☐ Note the attached Information Disclosure Statement(s).13. ☐ Other:	(PTO/SB/08 or PTO-1449) Paper N	o(s)	

U.S. Patent and Trademark Office PTOL-303 (Rev. 7-05) SUMESH KAUSHAL, PH.D. PRIMARY EXAMINER Sumesh Kaushal

Primary Examiner Art Unit: 1633

Continuation of 11, does NOT place the application in condition for allowance because: Claims 22-26 stand rejected under 35 USC 101 regarding Utility issues and under 35 USC 112(1) regarding Enablement issues for the same reasons of record as set forth in the office action mailed on 11/1/05. The invention as claimed lacks Utility and is found not enabled because instant specification (as filed) does not teach any significance or functional characteristics of the PRO0361 polypeptide (SEQ ID NO:83) or antibody. The specification does not even disclose if PRO0361 is a secreted protein or a transmembrane protein. However, applicant argues that example 34, found on page 141 discloses that the PRO361 polypeptide tested positive in the Mixed Lymphocyte Reaction (MLR) Assay. The applicant asserts that a positive reaction in the MLR assay illustrates that PRO361 functions as an inhibitor of the proliferation of stimulated T-lymphocytes. However, applicant's argumetns are found not persuasive. The earlier office action clealry states that the ability of a protein to stimulate lymphocyte proliferation in the MLR assay does not support a specific and substantial utility for the claimed invention. The ability to stimulate or inhibit lymphocyte proliferation in the MLR assay is an artificial in-vitro system and does not provide for what specific conditions or for which specific diseases the claimed invention would predictably function. The assertion that the claimed invention could be useful for the treatment of conditions where the enhancement of the immune response would be beneficial is not specific, since there are many such conditions, and it is not predictable of which conditions the claimed invention may function, if any. Mixed lymphocyte culture (MLC or MLR) is a special case of antigen stimulation in which T lymphocytes respond to foreign histocompatibility antigen on unrelated lymphocytes or monocytes. MLC is a functional assay of cellular response to stimulatory determinants associated predominantly with HLA class II molecules. A single genetic locus or region, known as HLA, controls the MLC reactivity. The MLC assay recognizes disparate HLA class II molecules and the resulting T-cell activation, which is thought to represent an in vitro model of the afferent arm of the in vivo allograft reaction. The degree of reactivity observed correlates with the degree of antigenic disparity between responding and stimulating cells. Briefly, when the lymphocytes of 2 HLA-disparate individuals are combined in tissue culture, the cells enlarge, synthesize DNA, and proliferate, whereas HLA-identical cells remain quiescent. Since both cells will normally proliferate, a oneway test is used to monitor the response of a single responder cell by inactivating the stimulator cell by radiation or drugs in order to inhibit DNA synthesis of the stimulator cell. The proliferation is driven primarily by the differences in the class II HLA antigens between the 2 test cells (or individuals). This reaction is not predictive of general responses of the immune system because, in vivo, activation of a lymphocyte is controlled not only by antigen binding but also by interactions with other cells. All T cells must cooperate with antigenpresenting cells, whereas B cells and cytotoxic T cells depend on helper T lymphocytes. These interactions either require direct surface-to surface contact or are mediated by cytokines that act only over extremely short distances. Because of this interdependence, lymphocyte activation occurs commonly and efficiently in the secondary lymphoid organs, where lymphocytes, antigens, and antigen-presenting cells encounter one another at close quarters. Therefore, the MLC assay, which is art recognized for determining histocompatibility, does not appear to be predictive of general immune responses in vivo. The specification indicates that CD4-IgG was used as a control, but it is not clear how this would control for background stimulation or provide for a measure of maximal stimulation. Lastly, the specification fails to provide any data or evidence of the results of the assay, therefore, one of ordinary skill in the art cannot evaluate the conclusion. The specification states that "positive increases over control are considered positive", however, this does not indicate that statistical significance must occur for determination of a positive result in the assay. Even though the applicant argues that the PRO polypeptide inhibits the lymphocyte proliferation like an IL-12 molecule via dendritic cell interaction the specification fails to provide. Even though the applicant argues that the MLR assay of the present application is designed to meassure the ability of a test substance to "drive" the dendritic cells to induce the prolifiration of T-cells that are activated or co-stimulated in the MLR assay like an IL-12 molecule the specification fails to provide any evidence that PRO polypeptide as claimed is capable of driving the dendritic cells to induce the proliferation of T-cells in the MLR assay via well establishes and specific interaction. In conclusion, the results of the MLR assay do not support a specific and substantial utility for the claimed invention because the assay is not predictive of immune response in general, and one of ordinary skill in the art would not expect a stimulatory effect in the MLC assay to correlate to a general stimulatory effect on the immune system, absent evidence to the contrary. Thus the only immediate apparent utility for the instant invention would be further scientific characterization of PRO361 polypeptide and an antibody that binds to this protein. Therefore, the asserted utility is not substantial, as the real-world use has not been established. Thus, the proposed use of the claimed antibodies that bind PRO0361 polypeptides are simply starting points for further research and investigation into potential uses of the polypeptides. See Brenner v. Manon, 148 U.S.P.Q. 689 (Sup. Ct, 1966), wherein the court held that: The basic quid pro quo contemplated by the Constitution and the Congress for granting a patent monopoly is the benefit derived by the public fro an invention with substantial utility:, "[u]nless and until a process is refined and developed to this point- where specific benefit exists in currently available form- there is insufficient justification for permitting an applicant to engross what may prove to be a broad field", and "a patent is not a hunting license", "[I]t is not a reward for the search, but compensation for its successful conclusion." The only immediate apparent utility for the instant invention would be further scientific characterization of PRO361 polypeptide and an antibody that binds to this protein. In addition the instant specification does not comply with 35 U.S.C. 101 and 112 since nebulous expressions "biological activity" and

"biological properties" do not contain a sufficiently explicit indication of usefulness of compounds and how to use them. The utility requirements must be met at the time of filing and not after someone else identify a utility that had not been disclosed in the specification. The disclosure is insufficient where experimentation is necessary to determine actual uses, or possible lack of uses, of compounds, as well as how to employ them in a useful manner. For example, it cannot be presumed that a steroid chemical compound is "useful" under 35 U.S.C. 101, or that one skilled in the art will know "how to use" it, simply because compound is closely related only in a structural sense to other steroid compounds known to be useful (In re Kirk and Petrow, 153 USPQ 48 (CCPA 1967)). In instant case the mere presence of mucin protein-like structure does not teach one skill in the art how to use the invention as claimed, since the disclosure is insufficient and requires further experimentation necessary to determine actual uses or possible lack of uses of the polypeptide, as well as how to employ them in a useful manner. It cannot be presumed that an antibody to PRO361 polypeptide is useful under 35 USC 101/112 or that one skilled in the art will know "how to use" it, simply because polypeptide is closely related only in a structural sense to other mucin-like proteins known to be useful. Therefore, the asserted use for the claimed invention is not supported by either a specific and/or substantial utility, since no function can be ascribed to the gene product. The only immediate apparent utility for the instant invention would be further scientific characterization of PRO361 polypeptide and an antibody that binds to this protein.